

10



CONFIDENTIAL

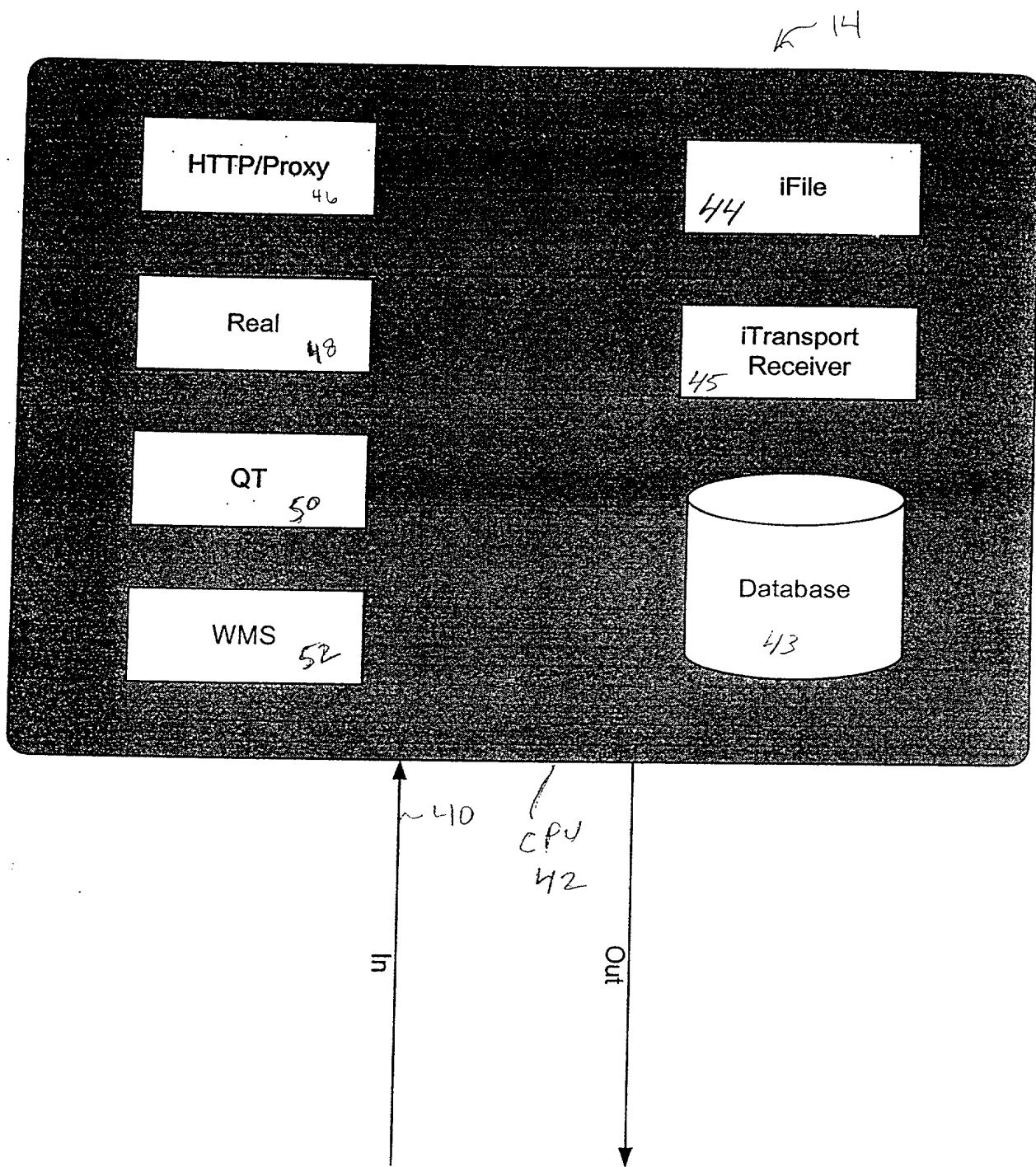
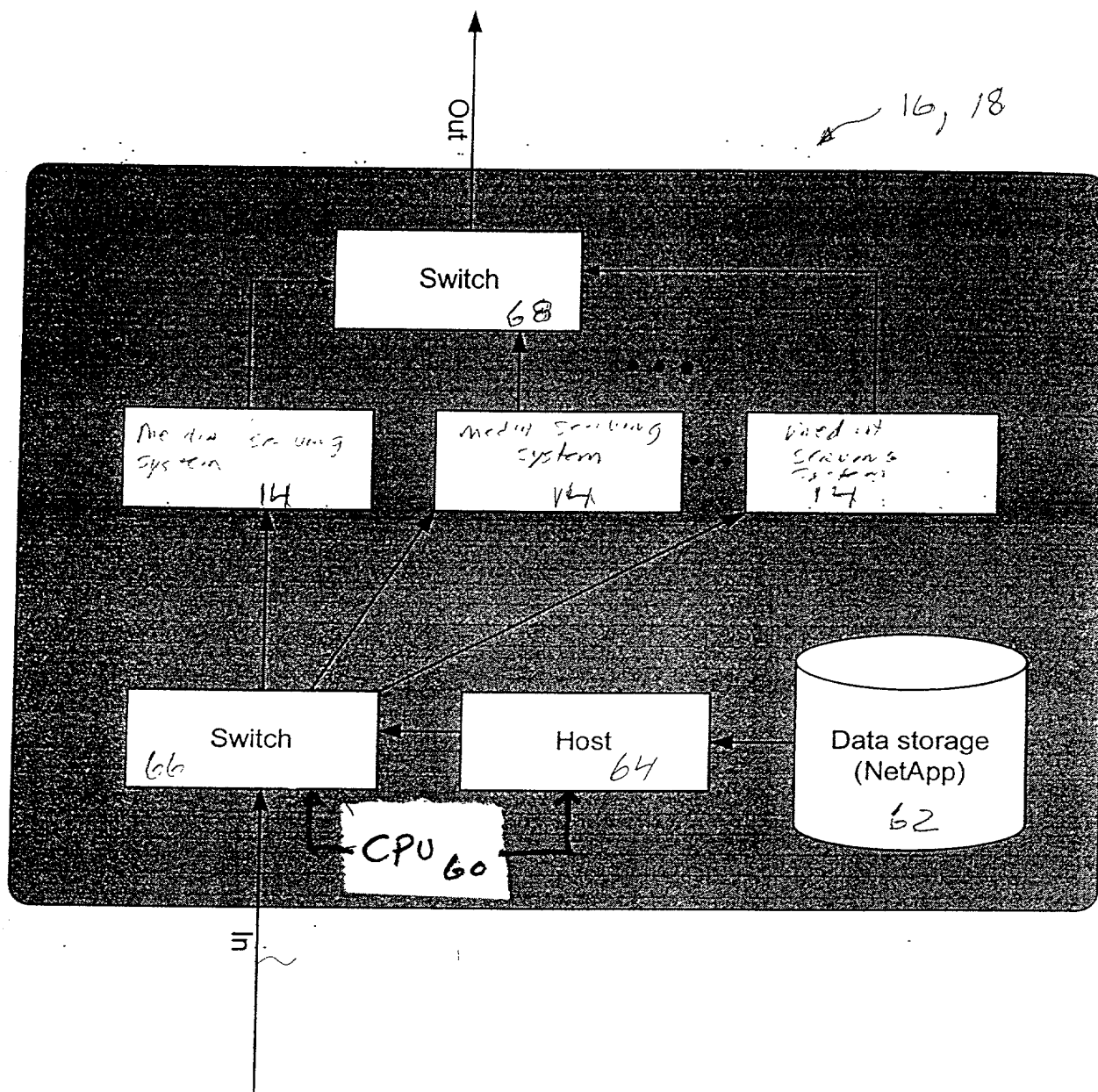


FIG. 2



F16.3

# Data Flow - Local

100

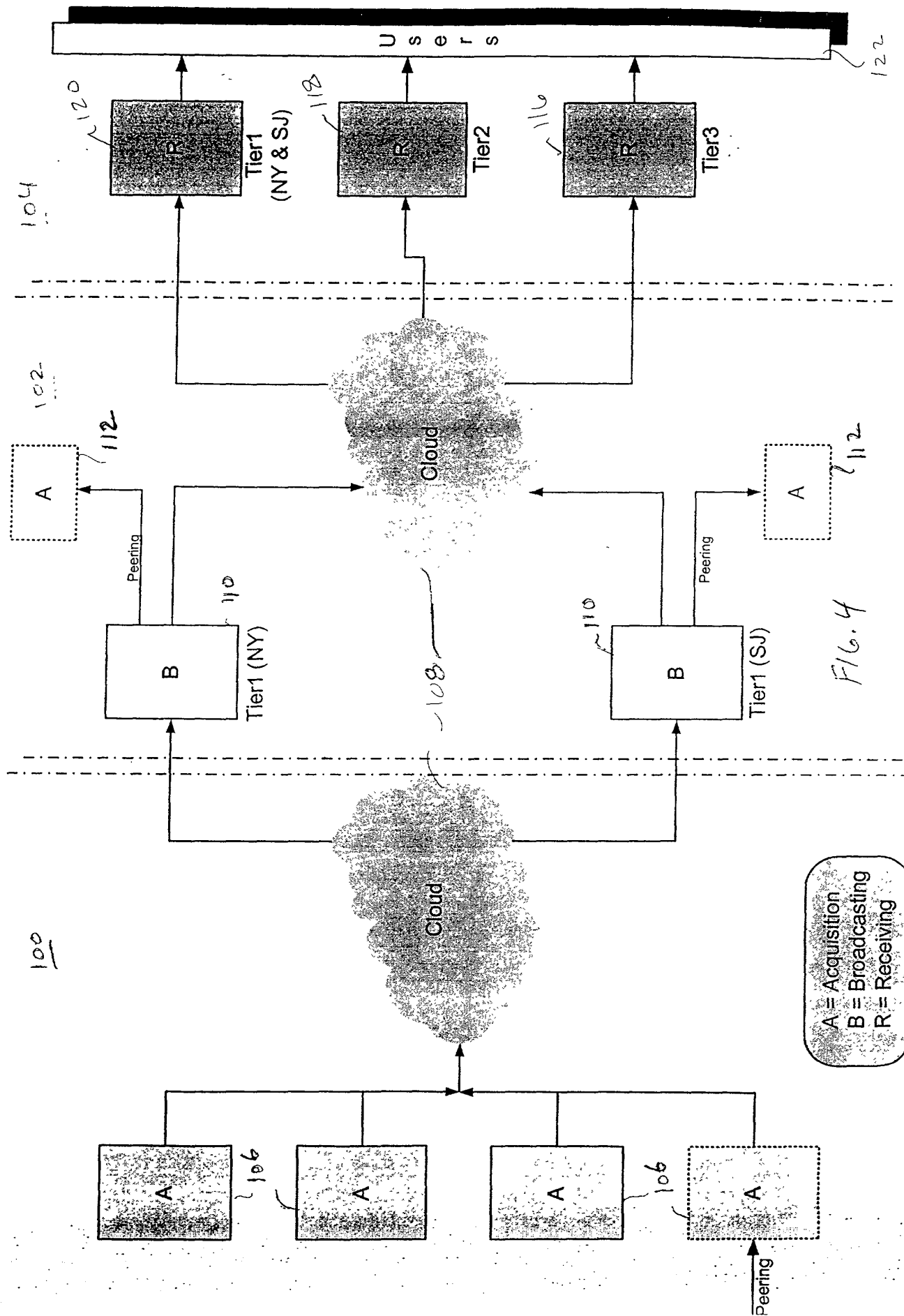


FIG. 4

The diagram illustrates the Real Time Streaming Architecture (RTSA) across several functional layers:

- Content:** Includes Live Analog, Live Digital, Analog Tape, and Hard Disk Data Storage.
- Local Encoding:** Features encoding and transcoding blocks.
- Remote Encoding:** Includes encoding and transcoding blocks.
- Acquisition:** Shows Real Time acquisition via Satellites, Wireless, ATM, Internet, and FireWire.
- Transmission:** Contains Transmission Control (with Real Time and MOD blocks), Multiple Streams, Multiple Users, and Audio. It also includes a Multiplex Control and Decoupled and Injection block.
- Broadcast Infrastructure:** Features Satellites and an Internet cloud.
- Reception:** Includes Broadcast Protocol (BIP) and a dedicated link (ATU dedicated link).
- Local Control:** Consists of four tiers: Tier 1 (caching), Tier 2 (caching), Tier 3 (caching), and Tier 4 (caching). These tiers handle File IO, MSBO, and RTP/RTSP.
- Serving:** Involves transcoding and various protocols like RTP/RTSP, MSBO, and File IO.
- Delivery:** Supports LAN (Ethernet), Internet (off-net), and Wireless networks.
- Function:** Lists Real Encoder, Windows Media Encoder, Quick Time Encoder, and MP2 (Mnerva?).
- Software:** Lists Real Player, Windows Media Quick Time Player, and Browser.

Additional components and protocols shown include:
 

- Protocols:** RTP/RTSP, MSBO, File IO, WAP, HTTP, RealTime, and Broadcast Protocol (BIP).
- Hardware/Software:** PCs, Set-top box (e.g., WinTV or DTV, etc.), Handhelds, Wireless (phone etc.), and RealPlayer.
- Services:** Real 7.0, Windows Media 4.0, Quick Time, and IIS.
- Networks:** LAN (Ethernet), Internet (off-net), and Wireless.
- Other:** A large 'i' logo is present on the right side of the diagram.

102

F/6.5

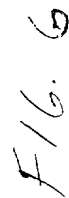
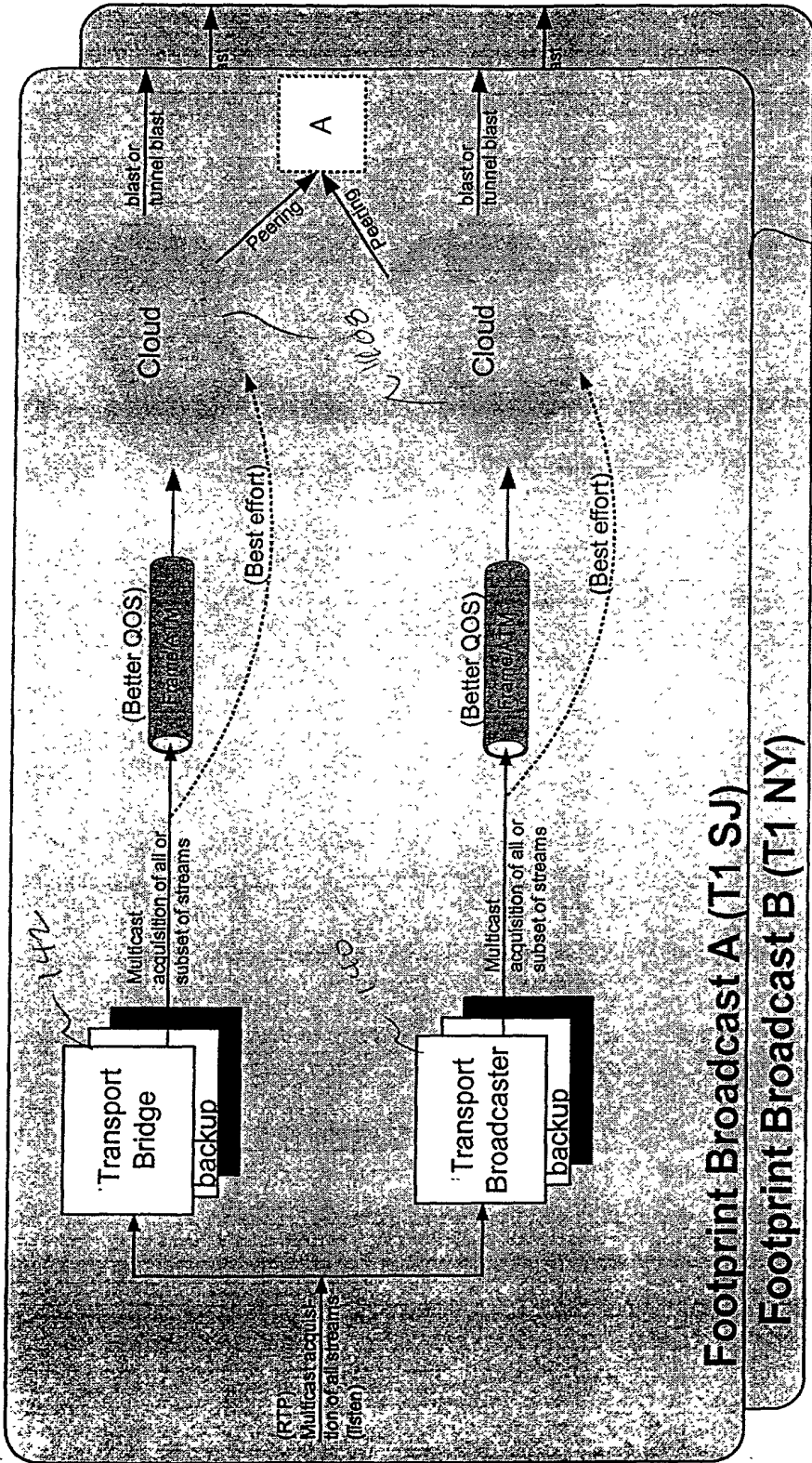


FIG. 10

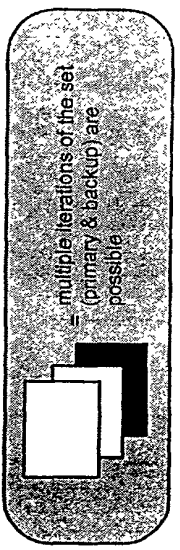
# Data Flow - Broadcasting

102



110

FIG. 7





# Data Flow - Reception

**Data Center (T1, T2, T3) / ISP A**  
**Data Center (T1, T2, T3) / ISP B**

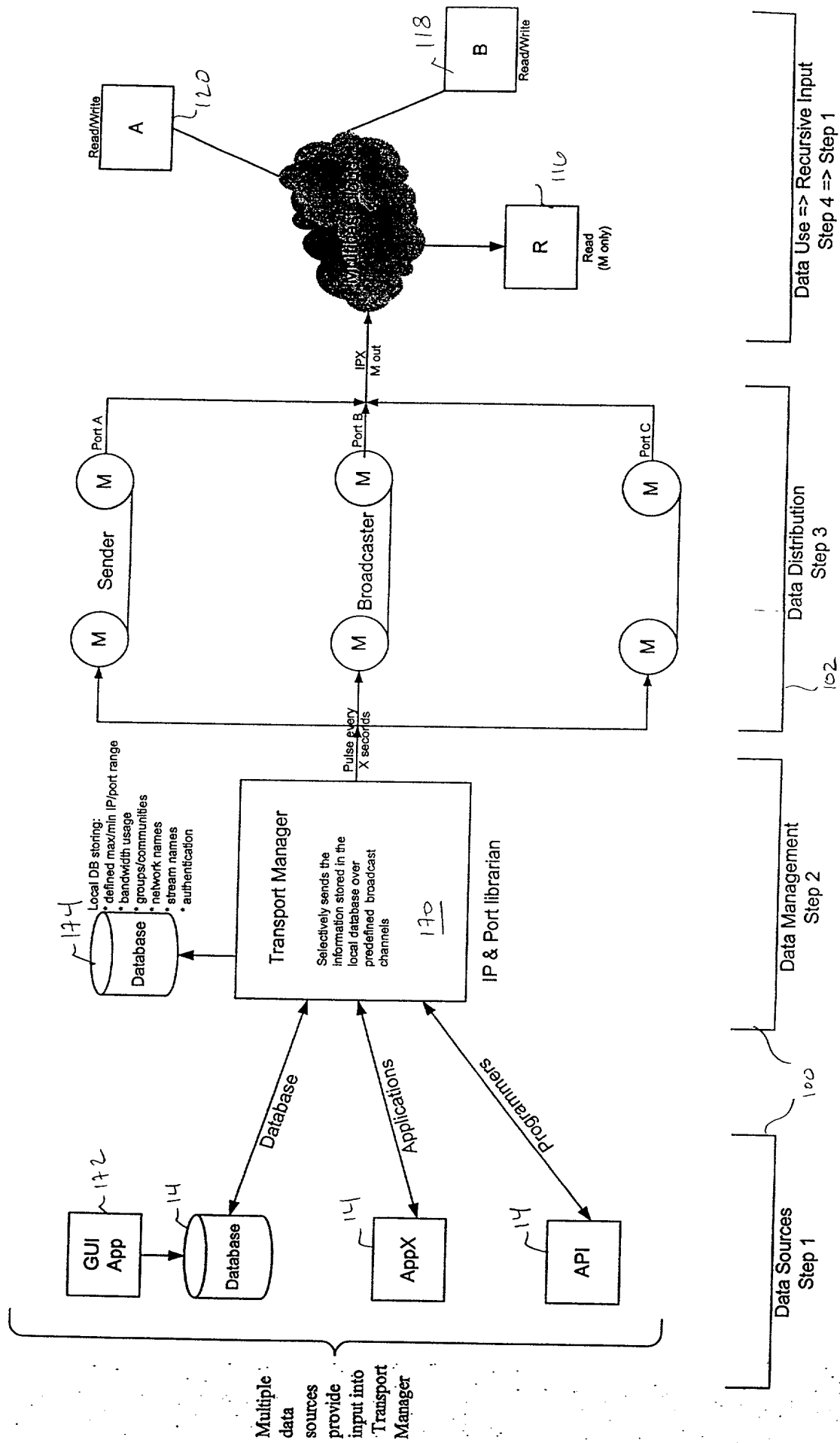
116, 118 or 120

multiple iterations of the application or process are possible

F/6.2



# Abstract Transport Data Management Overview



Downloaded from www.scribd.com

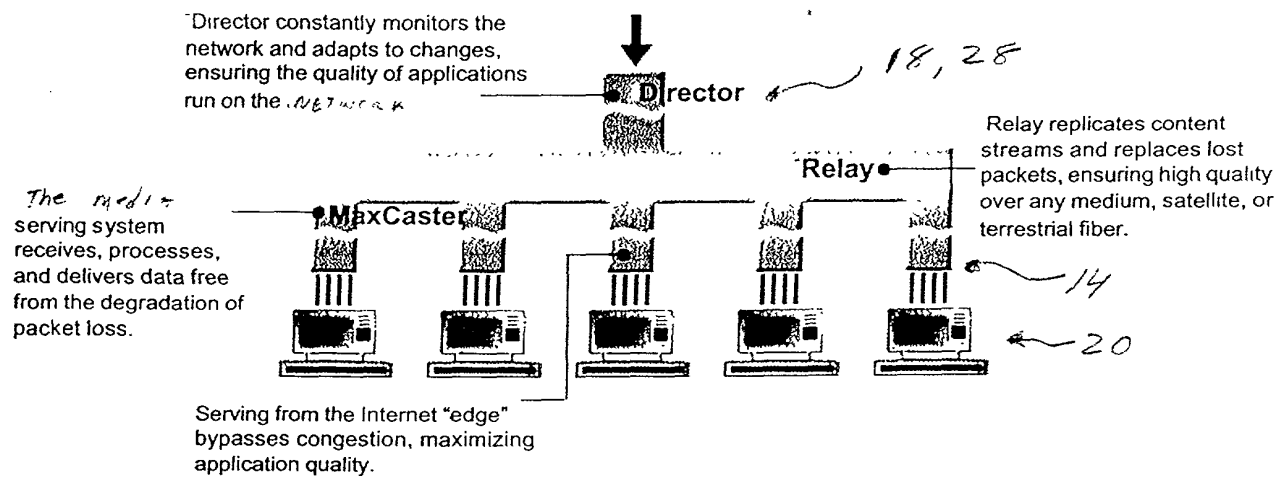


FIG. 10

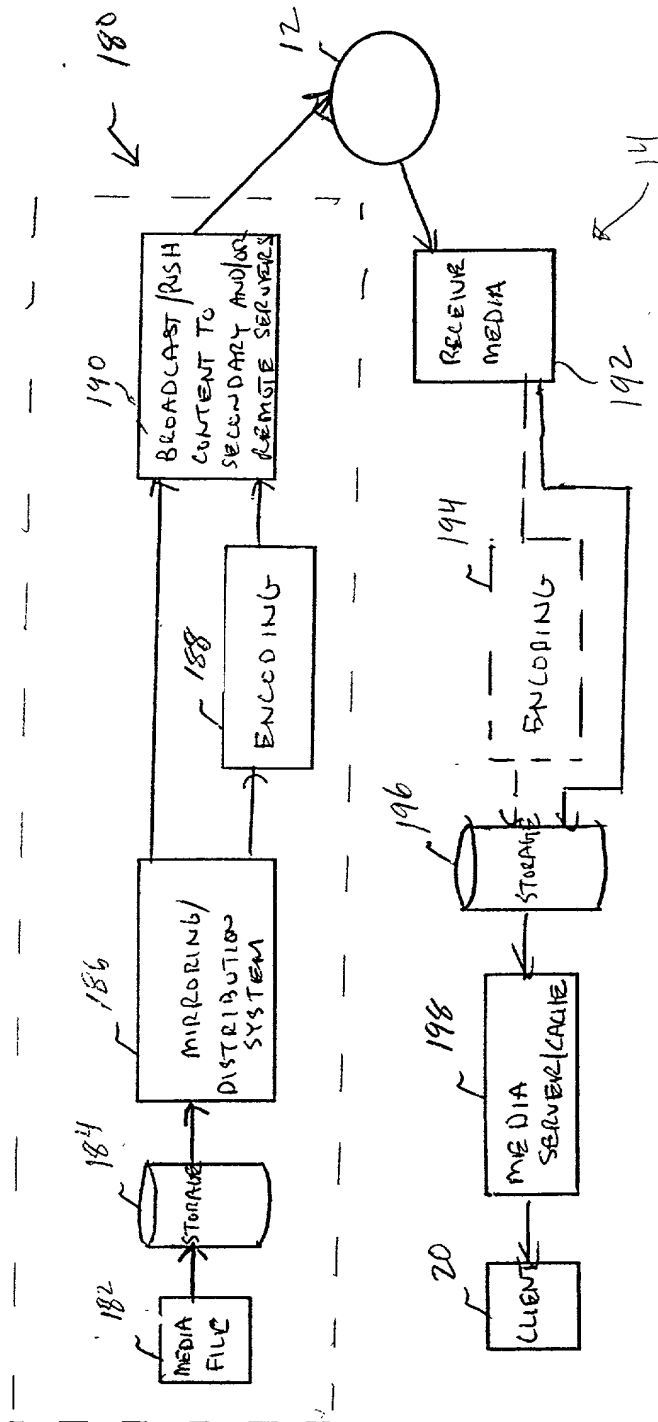
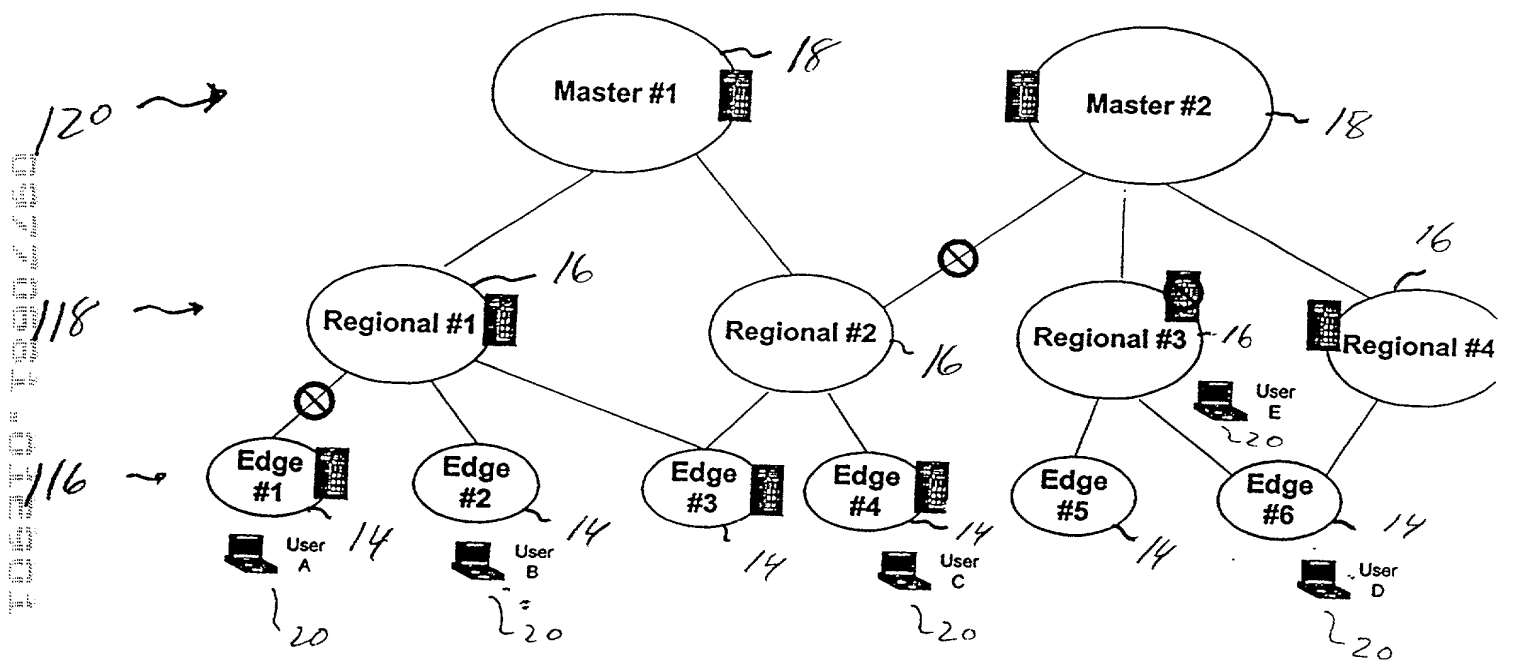


FIG. 11



F16. 12